

[54] **DESIGN COMPONENT SELECTION  
COMPUTER WITH SPECIFICATION OF  
PRODUCT CHARACTERISTICS AND OF  
COLOR BY MACHINE READABLE DEVICE**

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**Related U.S. Application Data**

[63] Continuation of Ser. No. 693,721, Jan. 22, 1985, abandoned, which is a continuation-in-part of Ser. No. 599,703, Apr. 12, 1984, abandoned.

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364/526; 235/375

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340/825.35

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

3,568,155	3/1971	Abraham .	
4,029,391	6/1977	French .....	356/418 X
4,029,419	6/1977	Schumann, Jr. et al. ....	356/418 X
4,318,121	3/1982	Taite et al. ....	358/22
4,359,631	11/1982	Lockwood et al. ....	235/381
4,418,390	11/1983	Smith et al. ....	364/526
4,445,178	4/1984	Scheer et al. ....	364/400
4,449,198	5/1984	Kroon et al. ....	364/900
4,488,245	11/1984	Dalke et al. ....	364/526
4,490,810	12/1984	Hon .....	364/900
4,523,852	6/1985	Bauer .....	356/421 X

**FOREIGN PATENT DOCUMENTS**

2105075 3/1983 United Kingdom .

**OTHER PUBLICATIONS**

Gatty, B., "Setting Up Shop on Computer Screens", *Nation's Business*, vol. 72, No. 3, Mar. 1984, 57-58.

"Retailers Beginning to Tune in Video Displays", *Advertising Age*, Nov. 18, 1985, 66.

"Videodisc: Product Search Launched for Architects

and Interior Designers", *Videodisc and Optical Disk*, vol. 5, No. 4, Jul./Aug. 1985, 244-247.

Yeazel, L. A., "Point-of-Purchase—The Decision to Buy", *Optical Information Systems*, vol. 6, No. 1, Jan./Feb. 1986, 36-37.

"Touchcom TM Interactive Videodisc Catalog Markets Furniture at Dayton's", *Videodisc & Optical Disk*, vol. 5, No. 5, Sep./Oct. 1985, 343-345.

Riggs, L., "Direct Marketing Goes Electronic", *Sales & Marketing Mgmt.*, vol. 134, No. 1, Jan. 1985, 59-60.

Hoke, P., "Comp-U-Store System Could Change Retail Economics", *Direct Marketing*, vol. 46, No. 3, Jul. 1983, 101-107.

CASPIR coding sheets, U.S. Patent & Trademark Office, 1974 and 1981.

Cavanagh, R. T., "Educational/Institutional Features of the Optical Videodisc System", *SMPTE Journal*, vol. 86, No. 4, Apr. 1977, 201-3.

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[57] **ABSTRACT**

A process for identification, description and display of design components, such as interior decoration products, selected by describing desired component characteristics to a digital computer. An image database is provided, preferably in the form of an addressable optical videodisk, each frame of which portrays an individual design component, and the images are displayed by operation of a computer-controlled archive system such as a random-access optical videodisk player. A characteristics database is provided to identify each portrayed design component by a variety of product categories including at least color, price, manufacturer and image database address. The process obtains one or more desired component characteristics, examines the characteristics database to identify design components meeting the desired product characteristics, and displays the identified component images together with a complete record of characteristics for each product. The desired color characteristic can be obtained by selection from a text dictionary of color identification terms, by machine inspection of a machine-readable color comparison sample, or by optical spectrum analysis of a pre-existing product sample.

**9 Claims, 2 Drawing Sheets**

